

INCH-POUND

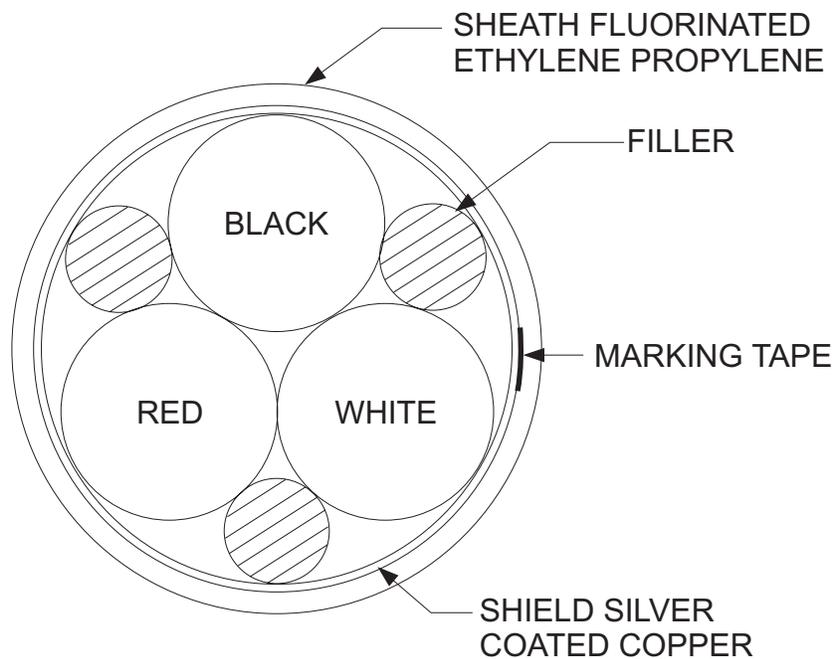
MIL-DTL-27072/61C  
11 November 2006  
SUPERSEDING  
MIL-DTL-27072/61B  
8 December 2000

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR  
(3 CONDUCTORS) AND SINGLE SHIELDED,  
M27072/61GEDD\*

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-27072.



Note: Jacket compound is clear with no additional color coding.

FIGURE 1. Cable configuration.

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REQUIREMENTS:

Design and construction:	See figure 1
Number of conductors:	3
Temperature rating:	200 °C
Components:	
Basic wire:	AS22759/9-18* or NEMA HP3-EEWBHE* (see table I)
Conductor:	Silver-coated copper
Primary insulation:	Polytetrafluoroethylene
Colors:	Black Red White
Jacket over insulation:	Not applicable
Filler:	
Material:	In accordance with MIL-DTL-27072
Lay:	3.0 inches maximum
Cabling:	Not applicable
Binder tape material:	Not applicable
Shield:	
Material:	Silver-coated copper
Gauge:	36 AWG
Braid angle:	20 to 40 degrees
Jacket undershield:	Not applicable
Sheath:	
Material:	Fluorinated ethylene propylene
Wall thickness:	.010 inch
Tensile strength:	In accordance with MIL-DTL-27072
Ultimate elongation:	In accordance with MIL-DTL-27072
Accelerated aging:	Not applicable
Color:	See MIL-DTL-27072
Finished cable:	See table I
Cold bend:	Mandrel size in accordance with MIL-DTL-27072
Dielectric withstanding voltage:	3,000 V rms
Conductor resistance:	In accordance with basic wire specification

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TABLE I. Construction data.

PIN M27072/61 <sup>2/</sup>	Basic wire except color (reference) AS22759/9-18* <sup>1/</sup> or NEMA HP3-EEWBHE*				Finished cable diameter in. (mm) ±10% <sup>3/</sup>
	Wire size (AWG)	Number of strands	Strand size	Nominal Diameter <sup>3/</sup> Inch (mm)	
GEDD	18	19	30	.079 (2.01)	.213 (5.41)

<sup>1/</sup> SAE AS22759/9-18\* color code is in accordance with MIL-STD-681.

Asterisks (\*) shall be replaced by the appropriate color designator.

<sup>2/</sup> Part or Identifying Number (PIN)

<sup>3/</sup> Dimensions are in inches. Metric equivalents are given for information only.

Marginal notations are not used in this revision to identify changes with respect to the previous issues due to the extensiveness of the changes.

Referenced document. In addition to MIL-DTL-27072, this document references MIL-STD-681.

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - SH  
Air Force - 11  
DLA – CC

Preparing activity:  
DLA - CC

(Project 6145-2006-003)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organization and responsibilities can change, please verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>